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Automated Neuropsychological Assessment Metrics (ANAM)

Availability:	**Please visit this website for more information about the instrument:** Vista Life Sciences Website
Classification:	**Supplemental:** Acute Hospitalized, Concussion/Mild Traumatic Brain Injury (TBI), Epidemiology, Moderate/Severe TBI: Rehabilitation TBI and Mitochondrial Disease (Mito) **Exploratory:** Multiple Sclerosis (MS)
Short Description of Instrument:	The Automated Neuropsychological Assessment Metrics (ANAM) is a computer-based neurocognitive assessment tool developed specifically for use in the military. United States service members must complete the ANAM within 12 months prior to deployment for a baseline record of the following aspects of neurocognitive function: speed and accuracy of attention, memory, and thinking ability. The TBI battery tests simple reaction time, code substitution, code substitution delayed, matching to sample, procedural reaction time, and mathematical processing and includes a sleepiness scale and a mood scale. If an injury is sustained during deployment, the test is repeated to measure changes in neurocognitive function. The test takes 15-20 minutes to complete the computer-based TBI battery of the ANAM. A baseline test must be completed before deployment and a repeat test may be completed if there is suspicion of TBI.
Scoring:	**Sleepiness Scale:** Participant selects from 7 stages of alertness, from "Feeling very alert, wide awake, and energetic" to "Very sleepy and cannot stay awake much longer." **Mood Scale:** Participant indicates on a scale of 0 to 6 their current state for each of Vigor, Happiness, Depression, Anger, Fatigue, Anxiety, and Restlessness with "0" as "Not at all" to "6" as "Very Much." **Simple reaction time:** Reaction time is captured for 40 trials **Code substitution:** Number of correct response to code substitution out of 72 trials **Procedural reaction time:** Reaction time and processing efficiency measured for 32 trials **Mathematical processing:** Number of correct responses out of 20 trials **Matching to sample:** Number of correct responses in 20 trials **Code substitution delayed:** Number of correct response to code substitution out of 36 trials

References:	Automated Neuropsychological Assessment Metrics , 4 ed . Norman, OK : C-SHOP ; 2007. Bleiberg J, Cernich A, Cameron K, Sun W, Peck K, Ecklund J, et al; Duration of cognitive impairment after sports concussion. Neurosurgery 2004; 54 (5); 1073-8. Friedl KE, Grate SJ, Proctor SP, Ness JW, Lukey BJ, Kane RL; Army research needs for automated neuropsychological tests; Monitoring soldier health and performance status. Arch Clin Neuropsychol 2007; 22(Suppl 1); S7-14. National Defense Authorization Act for Fiscal Year 2008, Public Law 110-181. HR 1585, Sect. 1618, 110th Congress (2008). Reeves DL, Winter KP, Bleiberg J, Kane RL . ANAM genogram: historical perspectives, description, and current endeavors . Arch Clin Neuropsychol 2007; 22 (Suppl. 1): S15 – 37. Vincent AS, Roebuck-Spencer T, Gilliland K, Schlegel R. Automated Neuropsychological Assessment Metrics (v4) Traumatic Brain Injury Battery: military normative data. Mil Med. 2012 Mar; 177(3):256-69. Warden DL, Bleiberg J, Cameron KL, Ecklund J, Walter J, Sparling MB, et al; Persistent prolongation of simple reaction time in sports concussion. Neurology 2001; 57 (3); 524-6.